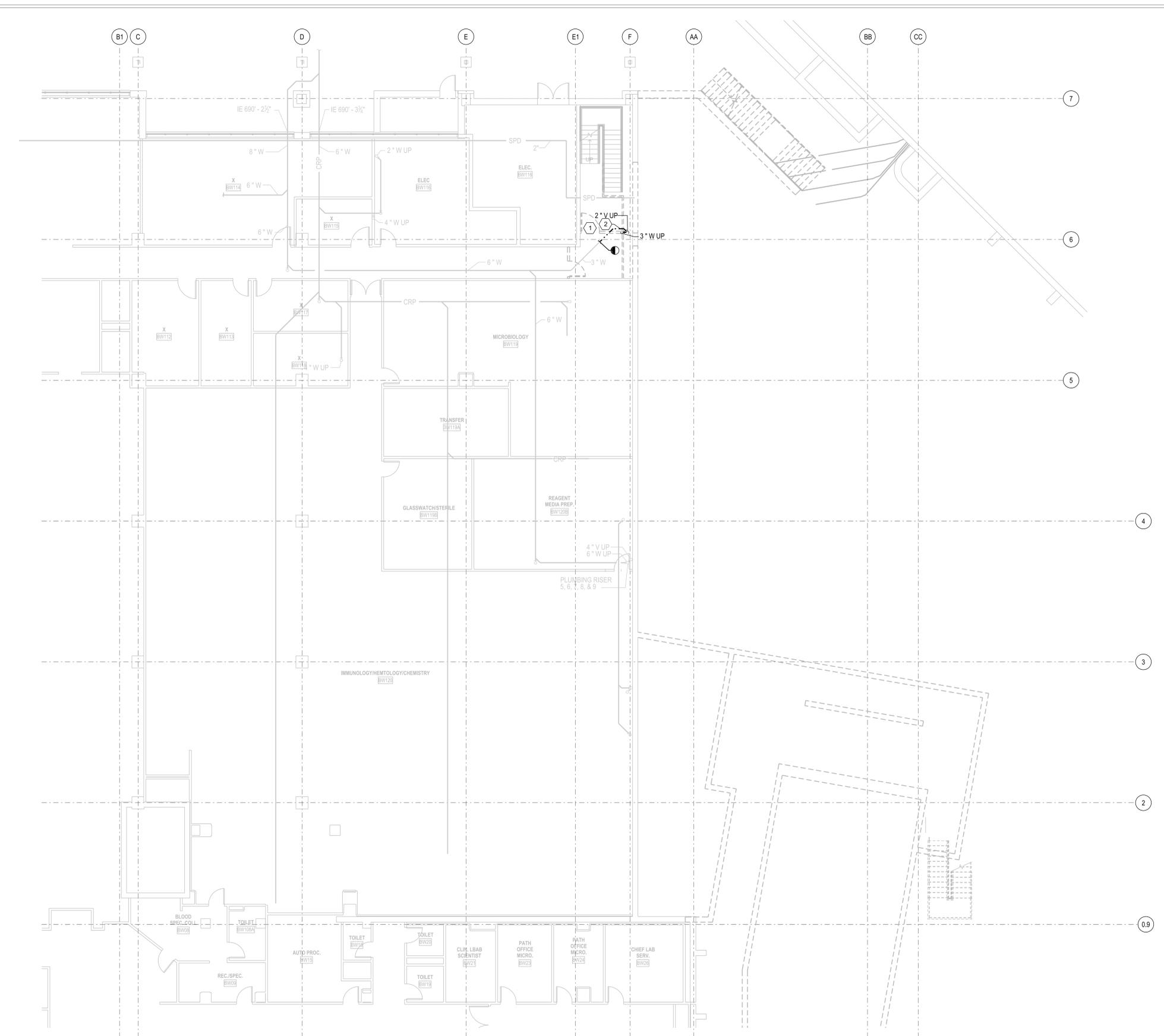


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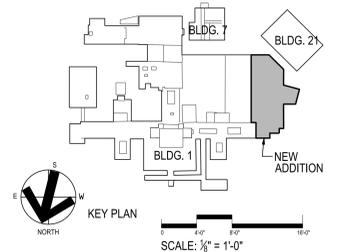
GENERAL PLUMBING NOTES:

- A. ALL WORK WITHIN EXISTING FACILITY SHALL BE COORDINATED WITH THE OWNER. PROPER DUST AND DIRT BARRIERS SHALL BE CONSTRUCTED FOR SEPARATION WITH THE WORK AREA IN THE HOSPITAL. SEPARATION PARTITIONS SHALL BE MADE OF STUDS AND GYPSUM BOARD, TAPED AND CAULKED. PARTITION SHALL INCLUDE A DOOR. INFECTION CONTROL SHALL BE CLASS III.
- B. ALL PIPING THROUGH FLOORS TO HAVE CORE DRILLED PENETRATIONS AND PROVIDED WITH FIRE STOPPING SLEEVES.
- C. GENERAL CONTRACTOR TO PATCH ALL FLOOR AND WALL PENETRATION HOLES REMAINING AFTER DEMOLITION OF ALL PIPING, CONDUITS, AND DUCTWORK.
- D. REFER TO SHEET 1-A8 FOR LIST OF AREAS AFFECTED BY DEDUCT ALTERNATES.
- E. ALL WORK PERFORMED IN THE CEILING OF ACTIVE VA PERSONS WORK AREA MUST BE COORDINATED WITH THE VA PROJECT MANAGER AND VA WORK AREA TENANT. WORK IN THESE AREAS SHALL BE PERFORMED AND COMPLETED DURING THE TIME PERIODS OUTSIDE THE NORMAL VA WORK DAY FOR EACH AREA, (EVENINGS AND WEEKENDS).

KEYED PLUMBING NOTES:

- 1 EXCAVATE UNDER THE FLOOR IN THE CORRIDOR TO MODIFY THE SANITARY WASTE. THE MODIFICATION SHALL BE CONNECTED TO THE NEW ADDITION. SLOPE THE WASTE PIPING AT 1/4" PER FOOT OF PIPE RUN. CAP WASTE PIPE BELOW SLAB.
- 2 REMOVE THE SANITARY WASTE AND VENT TO THE FLOOR DRAIN SERVING THE FIRE SPRINKLER SYSTEM DRAIN IN THE STAIRS VENT RISER UP.

1 ZONE A
1/4" = 1'-0"



Revisions	Date	Revisions	Date	Revisions	Date

 Heery International Inc. 125 South Dubuque Street, Suite 500, Iowa City, IA 52240-4003 319.354.4700	project number 11-25503	Drawing Title PLUMBING DEMOLITION PLAN BELOW GRADE - LOWER LEVEL	Project Title EXPAND BLDG. 1 FOR FACT AMBULATORY CARE & RADIOLOGY	Date 12/15/2014
	CONSTRUCTION DOCUMENTS	Building No. BLDG. 1	Checked AGW	Drawn DRB
Location ICVA HEALTH CARE SYSTEM	Drawing No. 1-P2	 Department of Veterans Affairs		

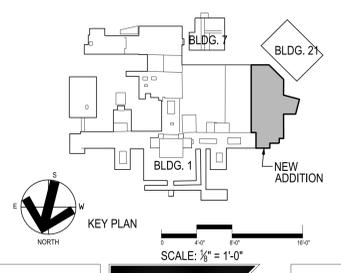
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 one-quarter inch = one foot
 one-eighth inch = one foot
 one-sixteenth inch = one foot



- GENERAL PLUMBING NOTES:**
- REMOVE ALL FITTINGS AND PIPING NOT BEING REUSED.
 - ALL WORK PERFORMED IN THE CEILING OF ACTIVE VA PERSONS WORK AREA MUST BE COORDINATED WITH THE VA PROJECT MANAGER AND VA WORK AREA TENANT. WORK IN THESE AREAS SHALL BE PERFORMED AND COMPLETED DURING THE TIME PERIODS OUTSIDE THE NORMAL VA WORK DAY FOR EACH AREA. (EVENINGS AND WEEKENDS).
 - SEE SHEET 1-P6 FOR NEW PLUMBING WASTE, VENT AND STORM FOR CONNECTIONS TO NEW PLUMBING FIXTURES ON LEVEL 1.
 - ALL WORK WITHIN EXISTING FACILITY SHALL BE COORDINATED WITH THE OWNER. PROPER DUST AND DIRT BARRIERS SHALL BE CONSTRUCTED FOR SEPARATION WITH THE WORK AREA IN THE HOSPITAL. SEPARATION PARTITIONS SHALL BE MADE OF STUDS AND GYPSUM BOARD, TAPED AND CAULKED. PARTITION SHALL INCLUDE A DOOR. INFECTION CONTROL SHALL BE CLASS III.
 - GENERAL CONTRACTOR TO PATCH ALL FLOOR AND WALL PENETRATION HOLES REMAINING AFTER DEMOLITION OF ALL PIPING, CONDUITS, AND DUCTWORK.
 - REFER TO SHEET 1-A8 FOR LIST OF AREAS AFFECTED BY DEDUCT ALTERNATES.

- KEYED DEMO NOTES:**
- OFFSET THE 8" STORM RISER TO NEW LOCATION AS SHOWN ON SHEET 1-P6.
 - OFFSET THE 10" STORM RISER TO NEW LOCATION AS SHOWN ON SHEET 1-P6.
 - OFFSET THE 4" WASTE RISER P-7 TO NEW LOCATION AS SHOWN ON SHEET 1-P6.
 - OFFSET THE 4" WASTE RISER P-5 AND 4" VENT RISER TO NEW LOCATION AS SHOWN ON SHEET 1-P6.
 - OFFSET THE 4" WASTE RISER AND 1 1/2" V RISER TO NEW LOCATION AS SHOWN ON SHEET 1-P6.
 - OFFSET THE 2" ACID VENT PIPE TO NEW LOCATION AS SHOWN ON SHEET 1-P6.
 - CONNECT TO NEW WASTE PIPING FOR LEVEL 1 THRU 4 OF THE ADDITION TO THE EXISTING 6" W RISER.
 - OFFSET THE 2" ACID VENT PIPE TO NEW LOCATION AS SHOWN ON SHEET 1-P6.
 - DEMOLISH ALL PLUMBING FOR REMOVED BUILDING. CAP ALL AFFECTED CONNECTIONS ON OTHER SIDE OF GRID LINE F.

1 ZONE A
1/4" = 1'-0"



Revisions	Date	Revisions	Date	Revisions	Date

project number
11-25503

Heery International Inc.
 125 South Dubuque Street,
 Suite 500,
 Iowa City, IA 52240-4003
 319.354.4700

Drawing Title
**PLUMBING DEMOLITION PLAN
 ABOVE GRADE- LOWER LEVEL**

CONSTRUCTION DOCUMENTS

Project Title
**EXPAND BLDG. 1 FOR PACT
 AMBULATORY CARE & RADIOLOGY**

Building No.
BLDG. 1

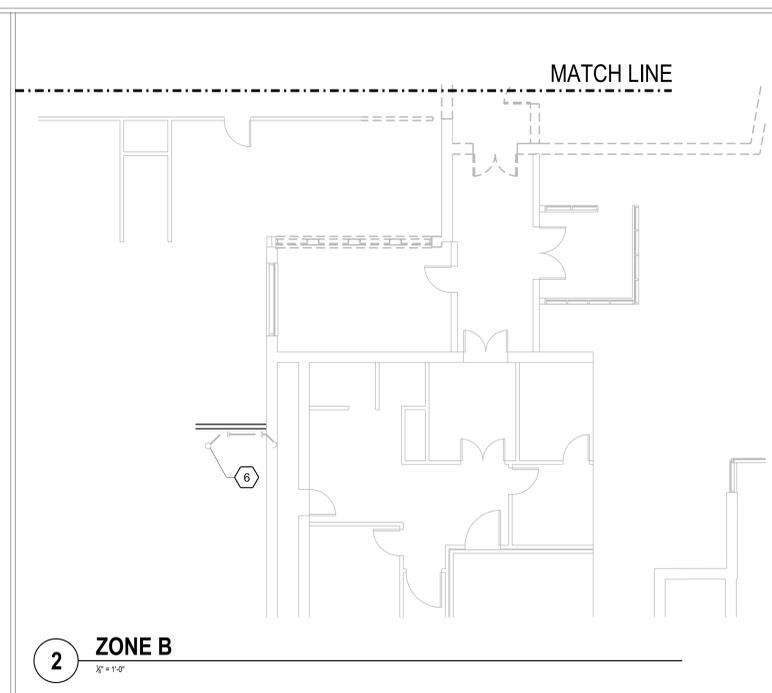
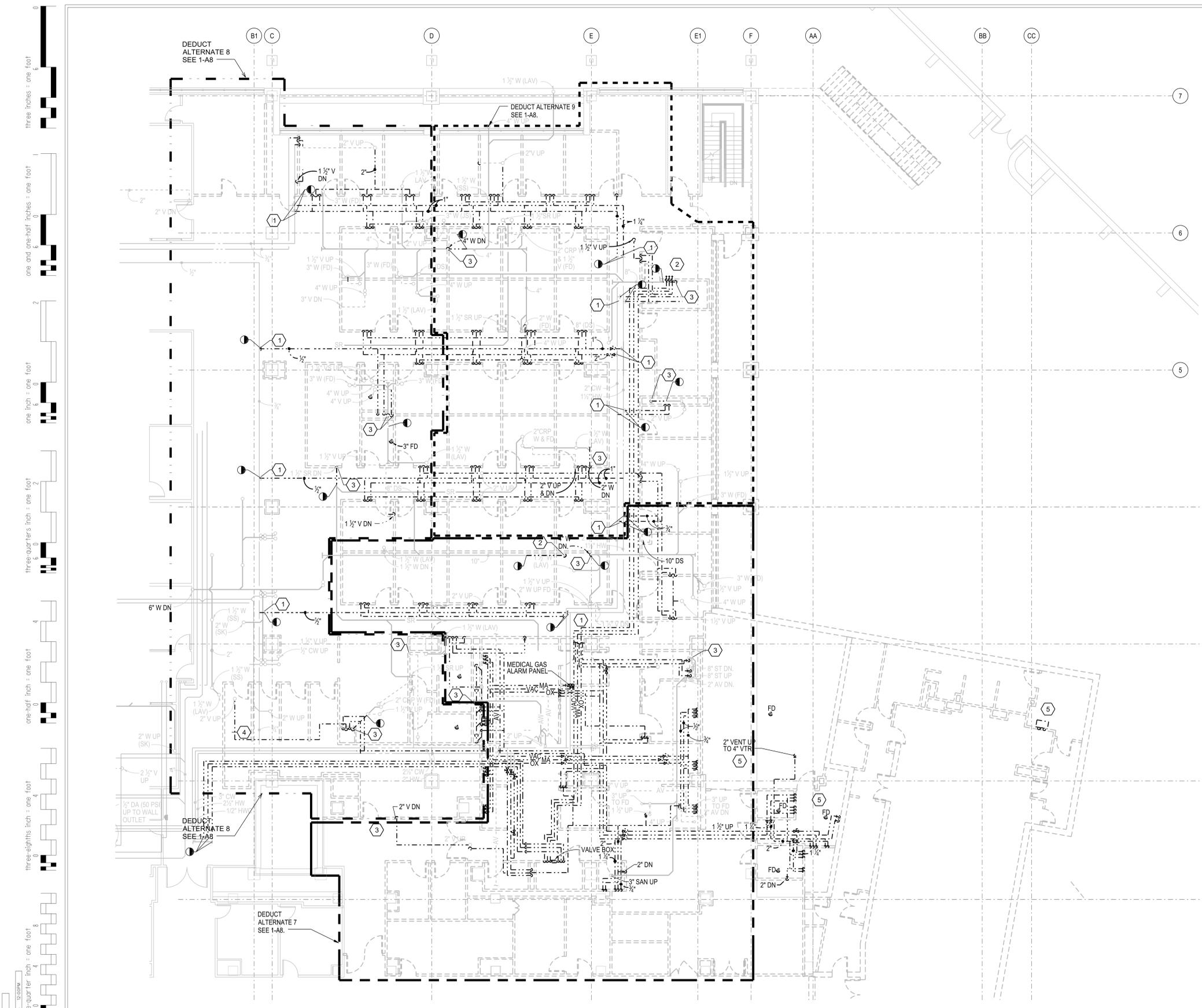
Location
ICVA HEALTH CARE SYSTEM

Date
12/15/2014

Project No.
636-201

Drawing No.
1-P3

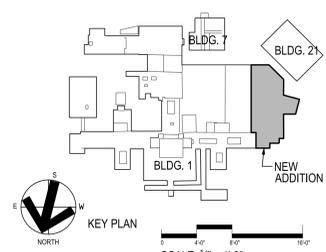
Department of
 Veterans Affairs



- GENERAL PLUMBING NOTES:**
- ALL WORK WITHIN EXISTING FACILITY SHALL BE COORDINATED WITH THE OWNER. PROPER DUST AND DIRT BARRIERS SHALL BE CONSTRUCTED FOR SEPARATION WITH THE WORK AREA IN THE HOSPITAL. SEPARATION PARTITIONS SHALL BE MADE OF STUDS AND GYPSUM BOARD, TAPED, AND CAULKED. PARTITION SHALL INCLUDE A DOOR. INFECTION CONTROL SHALL BE CLASS III.
 - RELOCATE ALL EXISTING TO REMAIN STORM, SANITARY, AND VENT RISERS INTO NEAREST NEW WALL AND RECONNECT TO MAIN ABOVE CEILING OF THIS LEVEL AND LOWER LEVEL. INCLUDE ALLOWANCE FOR RELOCATING SEVERAL RISERS NOT SHOWN; TO BE FOUND AFTER WALL DEMOLITION.
 - GENERAL CONTRACTOR TO PATCH ALL FLOOR AND WALL PENETRATION HOLES REMAINING AFTER DEMOLITION OF ALL PIPING, CONDUITS, AND DUCTWORK.
 - REFER TO SHEET 1-A8 FOR LIST OF AREAS AFFECTED BY DEDUCT ALTERNATES.

- KEYED DEMO NOTES:**
- CAP DOMESTIC WATER LINES AT THE MAIN WHERE PIPING IS REMOVE AND NOT REUSED.
 - RELOCATE STORM PIPE THROUGH FLOOR TO ACCOMMODATE NEW FLOOR PLAN.
 - RELOCATE WASTE AND VENT PIPE THROUGH FLOOR TO ACCOMMODATE NEW FLOOR PLAN.
 - CAP OX, MA AND VAC PIPING DURING THE PHASE FOR DEMOLITION OF THE EMERGENCY DEPARTMENT THIS WORK WILL REQUIRE SYSTEM SHUT DOWNS AND WORK PERIOD OUTSIDE THE VA'S NORMAL OPERATING HOURS.
 - DEMOLISH ALL PLUMBING FIXTURES AND ASSOCIATED PIPING FOR REMOVED BUILDING.
 - DEMOLISH AREA DRAIN.

1 ZONE A
1/2" = 1'-0"

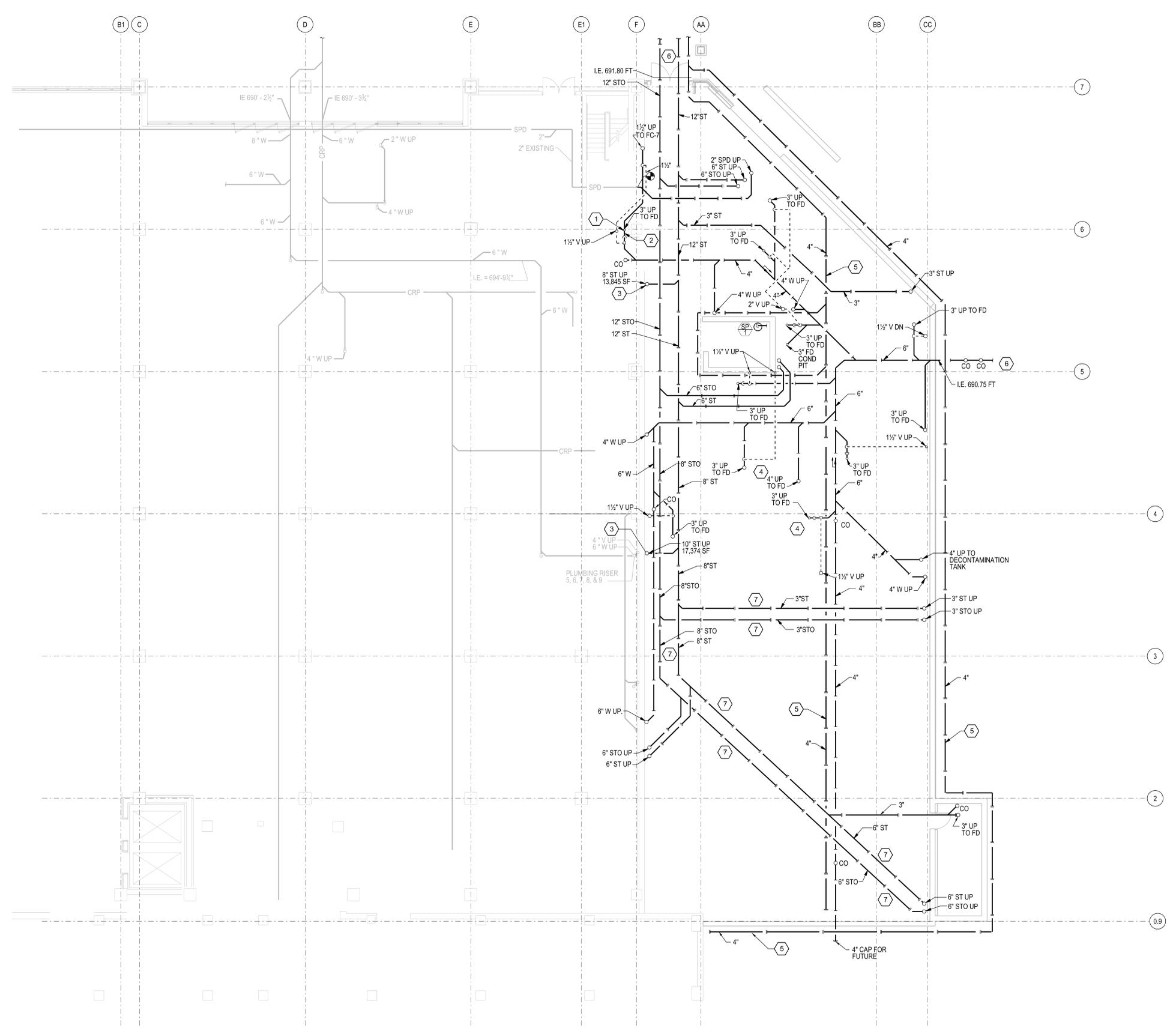


PROJECT: ICVA VAMC - EXPAND BLDG. 1 FOR FACT PROJECT
 SHEET TITLE: PLUMBING DEMOLITION PLAN - LEVEL 1
 DATE: 12/15/2014
 DRAWN BY: AGW
 CHECKED BY: DRB

Revisions	Date	Revisions	Date	Revisions	Date

<p>Heery International Inc. 125 South Dubuque Street, Suite 500, Iowa City, IA 52240-4003 319.354.4700</p>	project number 11-25503	Drawing Title PLUMBING DEMOLITION PLAN LEVEL 1	Project Title EXPAND BLDG. 1 FOR FACT AMBULATORY CARE & RADIOLOGY	Date 12/15/2014
	CONSTRUCTION DOCUMENTS	Building No. BLDG. 1	Checked AGW	Drawn DRB
Location ICVA HEALTH CARE SYSTEM			DRAWING NO. 1-P4	

three inches = one foot
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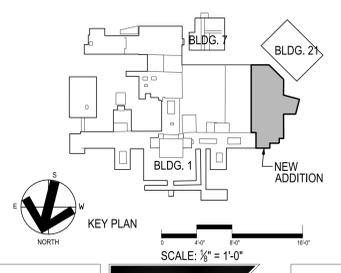
GENERAL PLUMBING NOTES:

- A. ALL UNDER SLAB PIPING SHALL BE INSTALLED AT 1/4" PER FOOT FALL.
- B. ALL UNDER SLAB WASTE PIPING WORK SHALL BE COORDINATED WITH THE OWNER. PROPER DUST AND DIRT BARRIERS SHALL BE CONSTRUCTED FOR SEPARATION WITH THE WORKING AREA IN THE HOSPITAL. SEPARATION PARTITION SHALL BE MADE OF STUDS AND GYPSUM BOARD TAPED AND CAULKED. PARTITION SHALL INCLUDE A DOOR. INFECTION CONTROL SHALL BE CLASS III.
- C. ALL WORK WITHIN EXISTING FACILITY SHALL BE COORDINATED WITH THE OWNER. PROPER DUST AND DIRT BARRIERS SHALL BE CONSTRUCTED FOR SEPARATION WITH THE WORKING AREA IN THE HOSPITAL. SEPARATION PARTITIONS SHALL BE MADE OF STUDS AND GYPSUM BOARD, TAPED, AND CAULKED. PARTITION SHALL INCLUDE A DOOR. INFECTION CONTROL SHALL BE CLASS III.
- D. GENERAL CONTRACTOR TO SLOPE FLOORS TO WARDS FLOOR DRAINS. COORDINATE WITH ARCHITECT AND OWNER FOR APPROVED SLOPE REQUIRED.
- E. ALL PIPING THROUGH FLOORS TO HAVE CORE DRILLED PENETRATIONS AND PROVIDED WITH FIRE STOPPING SLEEVES.
- F. REFER TO SHEET 1-A68 FOR LIST OF AREAS AFFECTED BY DEDUCT ALTERNATES.

KEYED PLUMBING NOTES:

- 1 3" FLOOR DRAIN FOR SPRINKLER DRAINAGE.
- 2 EXCAVATE UNDER THE FLOOR OF THE CORRIDOR TO CONNECT WITH THE NEW WASTE PIPING. REPLACE WITH NEW FLOOR TO MATCH THE EXISTING MATERIAL AND FLOOR ELEVATION BY GENERAL CONTRACTOR.
- 3 CONNECT TO THE EXISTING STORM DRAIN PIPE FROM THE CLINIC ADDITION AND TURN DOWN INTO THE FLOOR FOR CONNECTION TO THE NEW STORM PIPING UNDER THE BASEMENT FLOOR SLAB.
- 4 COORDINATE THE LOCATION OF THE FLOOR DRAIN WITH THE COIL CONDENSATE DRAIN LOCATIONS AND COIL DRAIN VALVES.
- 5 PERFORATED PVC DRAINAGE TILE WITH SEDIMENT & DRAINAGE CLOTH. INSTALL AT 1/8" PER FOOT FALL. CONNECT TO SITE STORM MAIN.
- 6 SEE SITE UTILITY PLAN FOR CONTINUATION.
- 7 INSTALL THIS SECTION OF FARTHEST STORM PIPING AT 1/8" PER FOOT FALL AS NEEDED TO ENSURE PROPER DISCHARGE INVERTED ELEVATION.

1 ZONE A
1/8"=1'-0"



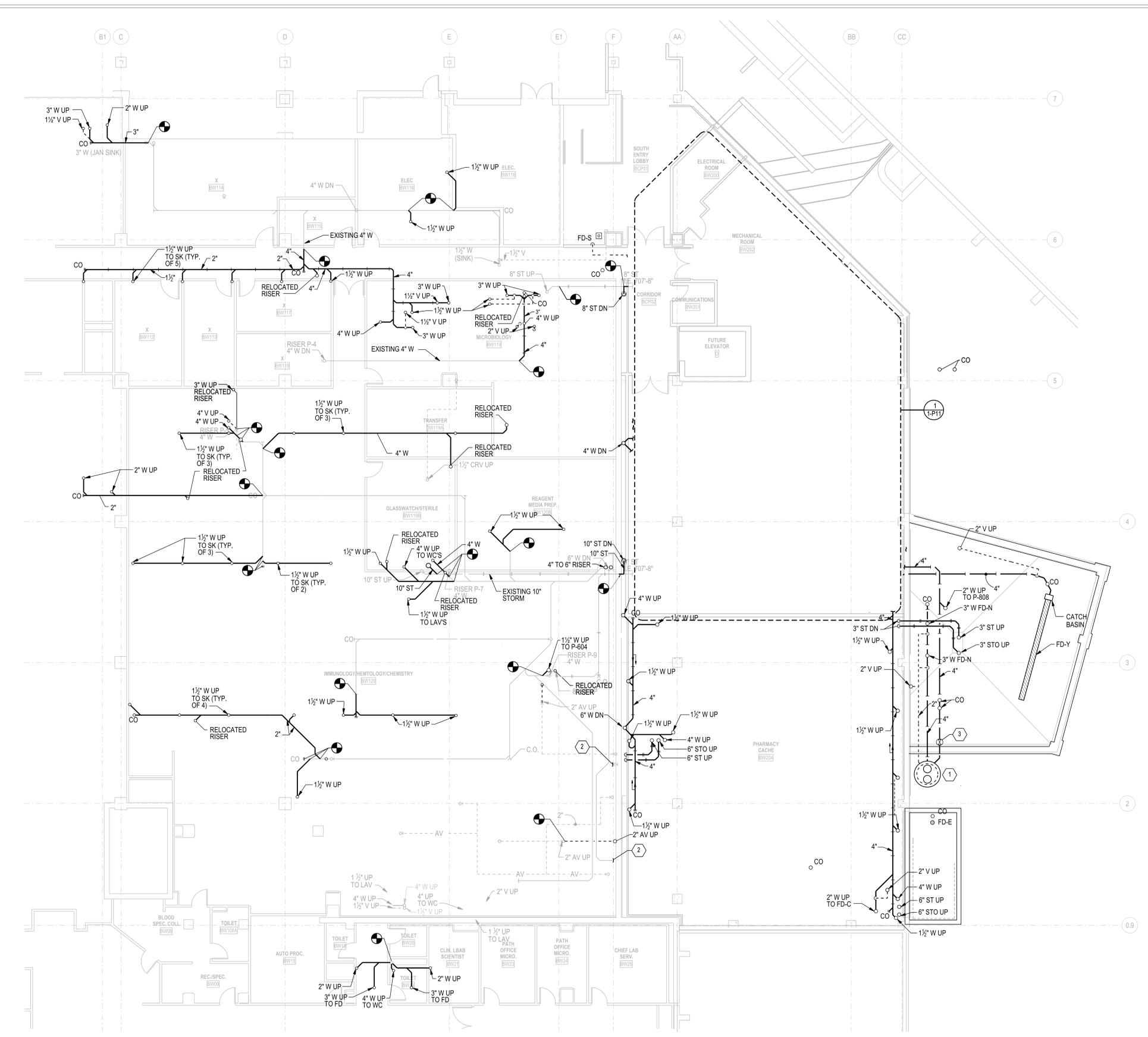
Revisions	Date	Revisions	Date	Revisions	Date

<p>Heery International Inc. 125 South Dubuque Street, Suite 500, Iowa City, IA 52240-4003 319.354.4700</p>	project number 11-25503	Drawing Title PLUMBING PLAN- BELOW GRADE - LOWER LEVEL	Project Title EXPAND BLDG. 1 FOR PACT AMBULATORY CARE & RADIOLOGY	Date 12/15/2014
	CONSTRUCTION DOCUMENTS	Building No. BLDG. 1	Checked AGW	Drawn DRB
Location ICVA HEALTH CARE SYSTEM			DRAWING NO. 1-P5	

VA FORM 08-6231, FEB. 1983
 Department of Veterans Affairs

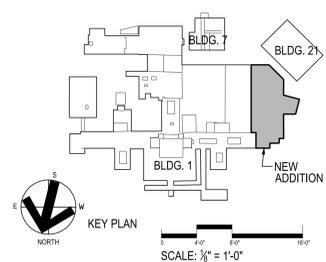
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1 ZONE A
1/8"=1'-0"



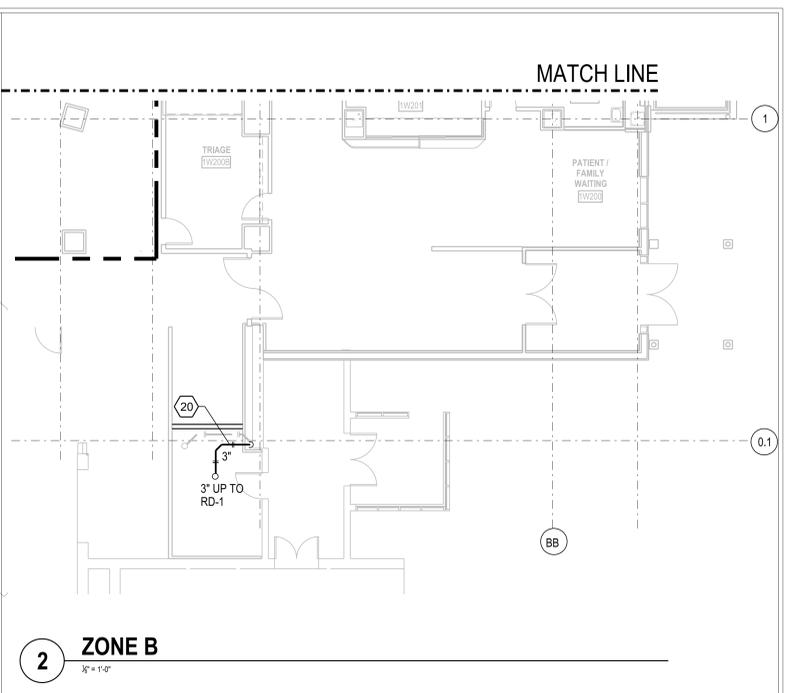
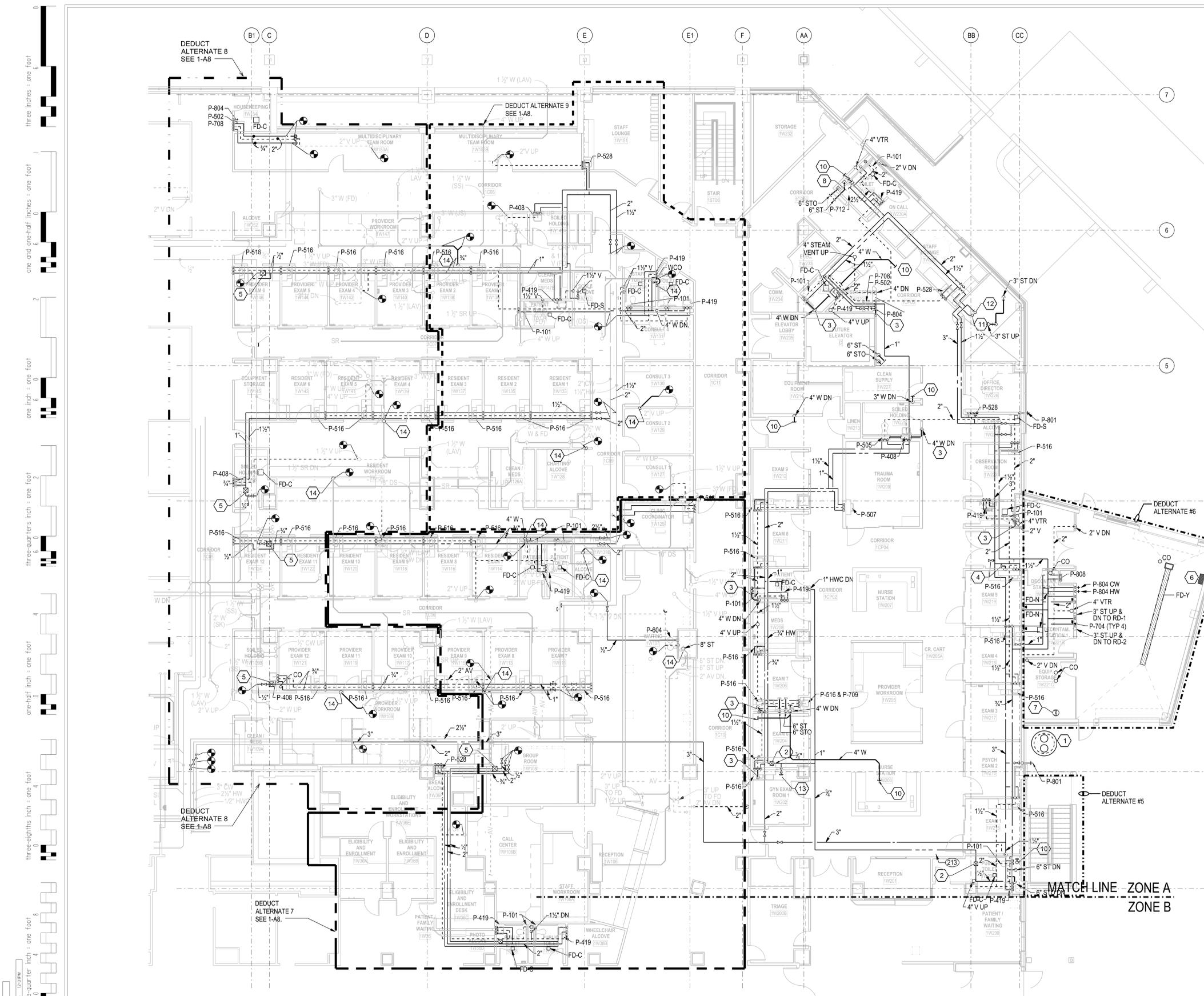
- GENERAL PLUMBING NOTES:**
- A. INSTALL CLEAN OUTS AT BASE OF ALL VERTICAL RISERS NEAR FLOOR FOR SANITARY AND STORM SEWER SYSTEMS.
 - B. ALL WORK WITHIN EXISTING FACILITY SHALL BE COORDINATED WITH THE OWNER. PROPER DUST AND DIRT BARRIERS SHALL BE CONSTRUCTED FOR SEPARATION WITH THE WORK AREA IN THE HOSPITAL. SEPARATION PARTITIONS SHALL BE MADE OF STUDS AND GYPSUM BOARD, TAPED, AND CAULKED. PARTITION SHALL INCLUDE A DOOR. INFECTION CONTROL SHALL BE CLASS III.
 - C. GENERAL CONTRACTOR TO SLOPE FLOORS TO WARDS FLOOR DRAINS. COORDINATE WITH ARCHITECT AND OWNER FOR APPROVED SLOPE REQUIRED.
 - D. ALL SANITARY WASTE PIPE SHALL BE INSTALLED AT 1/4" PER FOOT FALL.
 - E. ALL PIPING THROUGH FLOORS TO HAVE CORE DRILLED PENETRATIONS AND PROVIDED WITH FIRE STOPPING SLEEVES.
 - F. REFER TO SHEET 1-A8 FOR LIST OF AREAS AFFECTED BY DEDUCT ALTERNATES.

- KEYED PLUMBING NOTES:**
- 1 DECONTAMINATION STORAGE TANK. SEE DETAIL 9 ON SHEET 1-P12.
 - 2 CAP ENDS OF DEMOLISHED PIPE TERMINATIONS. REMOVE ANY UNUSED EXCESS PIPING.
 - 3 DECONTAMINATION MANUAL VALVE BELOW GRADE. ACCESSIBLE VALVE BOX COVER.



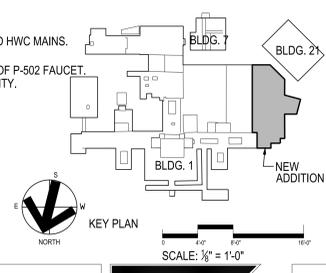
Revisions	Date	Revisions	Date	Revisions	Date

<p>Heery International Inc. 125 South Dubuque Street, Suite 500, Iowa City, IA 52240-4003 319.354.4700</p>	project number 11-25503	Drawing Title PLUMBING PLAN- LOWER LEVEL	Project Title EXPAND BLDG. 1 FOR PACT AMBULATORY CARE & RADIOLOGY	Date 12/15/2014
	CONSTRUCTION DOCUMENTS	Building No. BLDG 1	Checked AGW	Drawn DRB
Location ICVA HEALTH CARE SYSTEM			Drawing No. 1-P6	



- GENERAL PLUMBING NOTES:**
- INSTALL CLEAN OUTS AT BASE OF ALL VERTICAL RISERS NEAR FLOOR FOR SANITARY AND STORM SEWER SYSTEMS.
 - ALL WORK WITHIN EXISTING FACILITY SHALL BE COORDINATED WITH THE OWNER. PROPER DUST AND DIRT BARRIERS SHALL BE CONSTRUCTED FOR SEPARATION WITH THE WORK AREA IN THE HOSPITAL. SEPARATION PARTITIONS SHALL BE MADE OF STUDS AND GYPSUM BOARD, TAPED, AND CAULKED. PARTITION SHALL INCLUDE A DOOR. INFECTION CONTROL SHALL BE CLASS III.
 - GENERAL CONTRACTOR TO SLOPE FLOORS TO WARDS FLOOR DRAINS. COORDINATE WITH ARCHITECT AND OWNER FOR APPROVED SLOPE REQUIRED.
 - RELOCATE ALL EXISTING STORM, SANITARY, AND VENT RISERS INTO NEAREST NEW WALL AND RECONNECT TO MAIN ABOVE CEILING OF THIS LEVEL AND LOWER LEVEL. INCLUDE ALLOWANCE FOR RELOCATING SEVERAL RISERS NOT SHOWN; TO BE FOUND AFTER WALL DEMOLITION.
 - OFFSET RISERS THROUGH FLOOR TO AVOID STRUCTURAL FLOOR WEAVING. WHERE NEEDED GENERAL CONTRACTOR TO INCREASE WALL STUD THICKNESS TO CONCEAL PIPE RISER WITHIN STUD SPACE.
 - ALL PIPING THROUGH FLOORS TO HAVE CORE DRILLED PENETRATIONS AND PROVIDED WITH FIRE STOPPING SLEEVES.
 - REFER TO SHEET 1-A8 FOR LIST OF AREAS AFFECTED BY DEDUCT ALTERNATES. MINIMIZE COLD AND HOT WATER FIXTURE RUN OUT DISTANCES BY LOCATING PIPING MAINS AS CLOSE TO FIXTURES AS POSSIBLE. PIPING FROM SERVICE MAINS TO FIXTURE SHALL HOLD NO MORE THAN 12 OZ OF WATER. PIPING SHOWN IS SCHEMATIC FOR CLARITY.
 - ALL CEILING MOUNTED ITEMS BETWEEN GRIDLINES "2" AND "5" AND FROM "CC" TO 32 FT EAST OF "CC" SHALL BE RIGIDLY SUPPORTED TO MINIMIZE MOTION DURING FUTURE MRI OPERATION. HANGERS SHALL BE FABRICATED FROM MATERIALS SUCH AS UNISTRUT. HANGERS SHALL BE BRACED TO PREVENT RACKING. FERROUS DUCT AND PIPE SHALL BE RIGIDLY FASTENED TO HANGER FRAME AND THERMALLY BROKEN. NON-FERROUS DUCT, PIPE, AND HANGERS MAY BE USED INSTEAD OF RIGID SUPPORTS. FERROUS LOOSE HANGER SYSTEMS SUCH AS HANGER STRAP AND ALL-THREAD ROD ARE PROHIBITED.

- KEYED PLUMBING NOTES:**
- DECONTAMINATION STORAGE TANK. SEE DETAIL ON 1-P12.
 - BALANCE CIRCUIT SETTER TO 1.5 GPM.
 - OFFSET WASTE IN WALL OR CABINET. COORDINATE WITH STRUCTURE.
 - 2" INCH WASTE RISER FOR FUTURE CONNECTION TO MRI HVAC CONDENSATE DRAINAGE. CAP PIPE ABOVE VESTIBULE CEILING.
 - BALANCE CIRCUIT SETTER TO 0.25 GPM.
 - DECONTAMINATION TANK LEVEL SENSOR CONTROL PANEL. 4'-0" AFF.
 - DECONTAMINATION MANUAL VALVE BELOW GRADE. ACCESSIBLE VALVE BOX COVER.
 - SET SHOWER BASE IN MORTAR CEMENT.
 - CONNECT 1/2" CW SUPPLY TO OWNER PROVIDED ICE MACHINE. INSTALL A 2" WASTE FLOOR SINK FD-2 BELOW ICE MACHINE. ICE MACHINE HAS INTEGRAL AIR GAP.
 - CAP 4" SANITARY FOR FUTURE CONNECTION. INSTALL UP TO ABOVE CEILING TILE.
 - 2 INCH COLD WATER MAIN DOWN TO MECHANICAL ROOM. 3 INCH COLD WATER CONNECTION UP WITH VALVE AND CAP FOR FUTURE USE.
 - 2 INCH HOT WATER MAIN FROM MECHANICAL ROOM. 1 1/2" INCH HOT WATER CONNECTION UP WITH VALVE AND CAP FOR FUTURE USE.
 - 1/2" HOT WATER CIRCULATION CAPPED FOR FUTURE. VALVE TO REMAIN CLOSED UNTIL FUTURE USE.
 - RELOCATE RISER INTO NEW WALL.
 - NOT USED
 - INSTALL ISOLATION BALL VALVES INTO EXISTING CW, HW, AND HWC MAINS.
 - INSTALL P-708 AT 42 INCHES ABOVE GRADE. 12 INCHES LEFT OF P-502 FAUCET. GENERAL CONTRACTOR TO BUILD WALL AS 8 INCH STUD CAVITY.
 - STEAM PRESSURE VENT PIPING. INSULATE PIPE. INSTALL AS INDEPENDENT VENT SYSTEM FOR MECHANICAL VENTING.
 - CAP STORM FOR FUTURE CONNECTION. INSTALL UP TO ABOVE CEILING TILE.
 - INSTALL ROOF DRAIN. AND CONNECT 3" STORM PIPE FROM BELOW GRADE DEMOLISHED AREA DRAIN AND ROUTE UP THROUGH CHASE WALL TO ROOF.



1 ZONE A
1/8" = 1'-0"

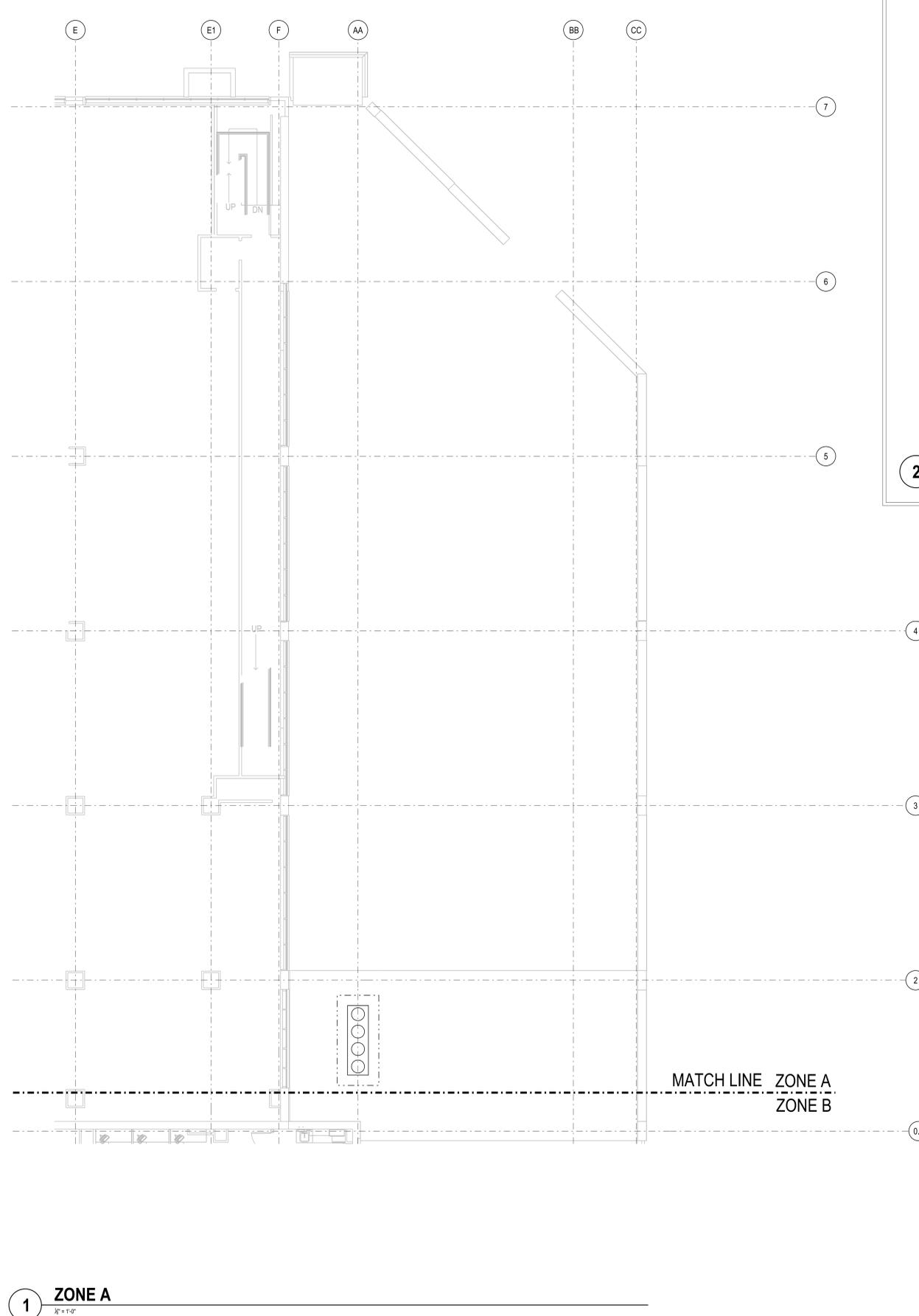
Revisions	Date	Revisions	Date	Revisions	Date

VA FORM 08-623, FEB. 1983

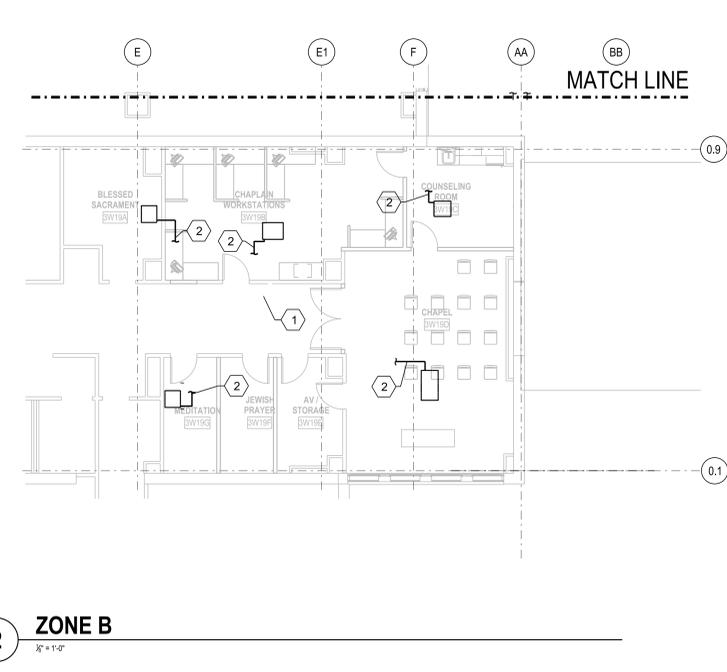
<p>Heery International Inc. 125 South Dubuque Street, Suite 500, Iowa City, IA 52244-4003 319.354.4700</p>	project number 11-25503	Drawing Title PLUMBING PLAN- LEVEL 1	Project Title EXPAND BLDG. 1 FOR FACT AMBULATORY CARE & RADIOLOGY	Date 12/15/2014
	CONSTRUCTION DOCUMENTS	Building No. BLDG 1	Checked AGW	Drawn DRB
Location ICVA HEALTH CARE SYSTEM			Drawing No. 1-P7	

Department of Veterans Affairs

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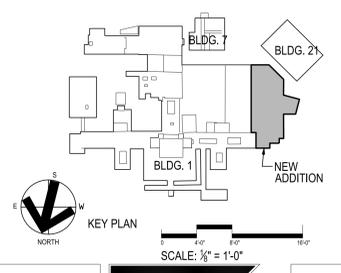
2 ZONE B
1/8" = 1'-0"

GENERAL PLUMBING NOTES:

- A. ALL WORK WITHIN EXISTING FACILITY SHALL BE COORDINATED WITH THE OWNER. PROPER DUST AND DIRT BARRIERS SHALL BE CONSTRUCTED FOR SEPARATION WITH THE WORK AREA IN THE HOSPITAL. SEPARATION PARTITIONS SHALL BE MADE OF STUDS AND GYPSUM BOARD, TAPED, AND CAULKED. PARTITION SHALL INCLUDE A DOOR. INFECTION CONTROL SHALL BE CLASS III.
- B. ALL PIPING THROUGH FLOORS TO HAVE CORE DRILLED PENETRATIONS AND PROVIDED WITH FIRE STOPPING SLEEVES.
- C. REFER TO SHEET 1-A8 FOR LIST OF AREAS AFFECTED BY DEDUCT ALTERNATES.

KEYED PLUMBING NOTES:

- ① CONNECT TO EXISTING HW CIRCULATION MAIN AND EXTEND TO NEW SINK ABOVE CEILING.
- ② CONNECT FAN COIL UNIT TO EXISTING CONDENSATE LINE. 3/4" PIPE OR AS RECOMMEND BY FAN COIL MANUFACTURER



Revisions	Date	Revisions	Date	Revisions	Date

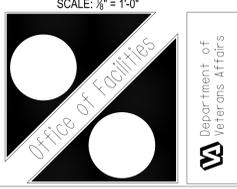
HEERY design
 Heery International Inc.
 125 South Dubuque Street,
 Suite 500,
 Iowa City, IA 52240-4003
 319.354.4700

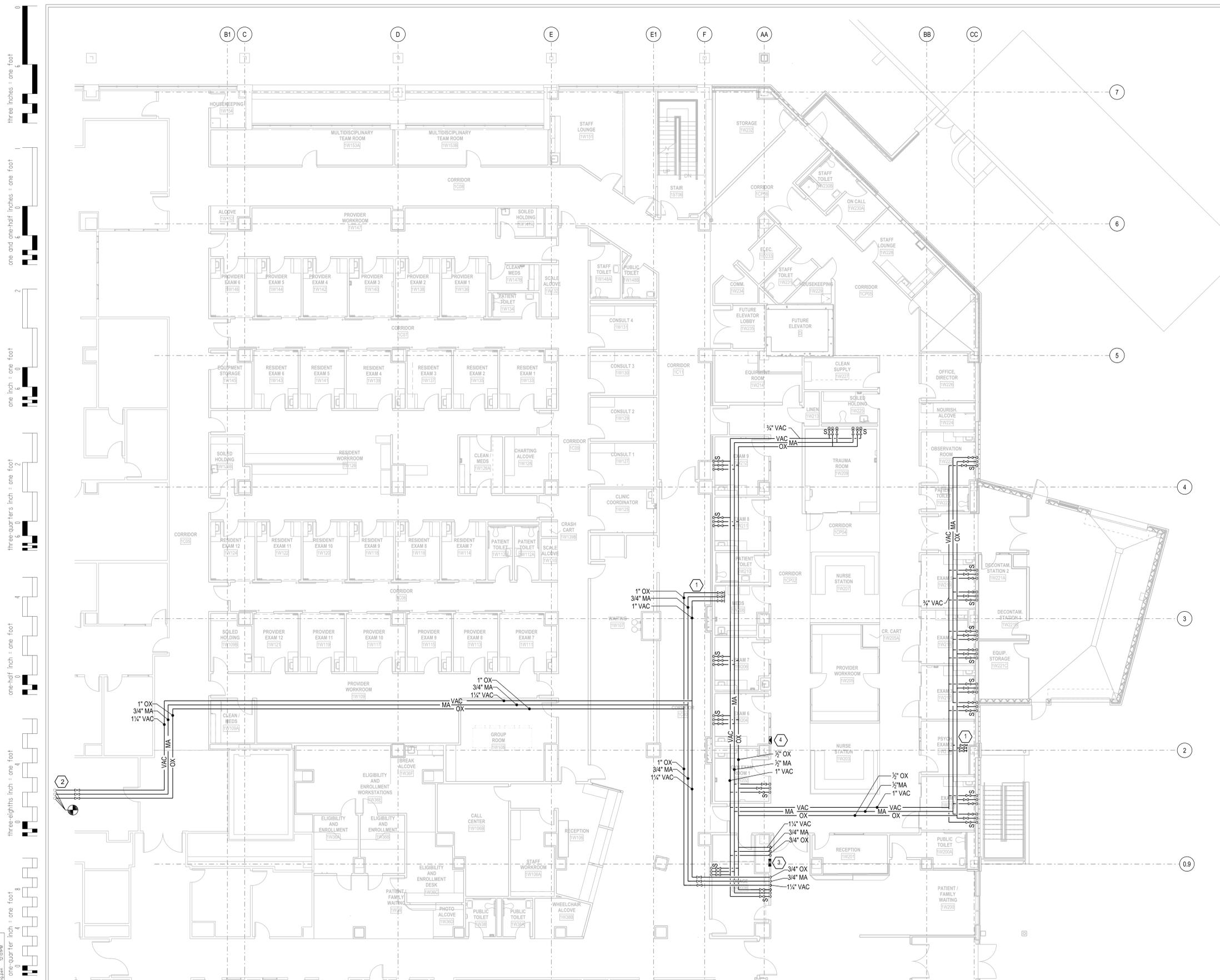
project number
11-25503

Drawing Title
**PLUMBING PLAN-
 LEVEL 3**
CONSTRUCTION DOCUMENTS

Project Title
**EXPAND BLDG. 1 FOR PACT
 AMBULATORY CARE & RADIOLOGY**
 Building No.
BLDG. 1
 Location
ICVA HEALTH CARE SYSTEM

Date
12/15/2014
 Project No.
636-201
 DRAWING NO.
1-P9





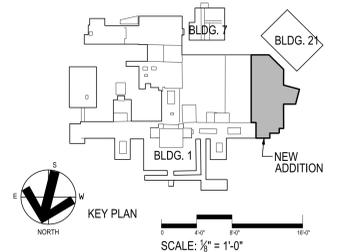
GENERAL PLUMBING NOTES:

- A. INSTALL LOCKABLE SHUT-OFF VALVE IN THE CEILING PRIOR TO EACH WALL MEDICAL OUTLET. OWNER WILL PROVIDE THE LOCKING MECHANISM.
- B. REFER TO SHEET 1-A8 FOR LIST OF AREAS AFFECTED BY DEDUCT ALTERNATES.
- C. COORDINATE WITH ARCHITECTURAL DETAILS FOR EXACT LOCATIONS OF WALL OUTLETS.
- D. ALL WORK WITHIN EXISTING FACILITY SHALL BE COORDINATED WITH THE OWNER. PROPER DUST AND DIRT BARRIERS SHALL BE CONSTRUCTED FOR SEPARATION WITH THE WORK AREA IN THE HOSPITAL. SEPARATION PARTITIONS SHALL BE MADE OF STUDS AND GYPSUM BOARD, TAPED, AND CAULKED. PARTITION SHALL INCLUDE A DOOR. INFECTION CONTROL SHALL BE CLASS III.
- E. ALL OUTLET AND SLIDES TO MATCH THOSE USED THROUGH OUT EXISTING FACILITY. CONTRACTOR TO VERIFY WITH VA PROJECT ENGINEER EXACT MODELS TO PROVIDE AND INSTALL.
- F. ALL PIPING THROUGH FLOORS TO HAVE CORE DRILLED PENETRATIONS AND PROVIDED WITH FIRE STOPPING SLEEVES.
- G. ALL CEILING MOUNTED ITEMS BETWEEN GRIDLINES "2" AND "5" AND FROM "CC" TO 32 FT EAST OF "CC" SHALL BE RIGIDLY SUPPORTED TO MINIMIZE MOTION DURING FUTURE MRI OPERATION. HANGERS SHALL BE FABRICATED FROM MATERIALS SUCH AS UNISTRUT. HANGERS SHALL BE BRACED TO PREVENT RACKING. FERROUS DUCT AND PIPE SHALL BE RIGIDLY FASTENED TO HANGER FRAME AND THERMALLY BROKEN. NON-FERROUS DUCT, PIPE, AND HANGERS MAY BE USED INSTEAD OF RIGID SUPPORTS. FERROUS LOOSE HANGER SYSTEMS SUCH AS HANGER STRAP AND ALL-THREAD ROD ARE PROHIBITED.

KEYED PLUMBING NOTES:

- 1 VALVE AND CAP FOR FUTURE CONNECTIONS.
- 2 CONNECT TO EXISTING RISER PIPE MAINS WITH NEW LOCKABLE SHUT-OFF VALVES. SHUT-DOWN SHALL BE COORDINATED WITH THE OWNER AND THE PRESENT EMERGENCY DEPARTMENT ACTIVITY. SHUT-DOWN SHALL BE AS SHORT AS POSSIBLE AND RE-CERTIFICATION PERFORMED AT THE END OF THE TIE-INS AND VALVE PLACEMENT.
- 3 MEDICAL GAS VALVE BOX.
- 4 MEDICAL GAS ALARM PANEL. COORDINATE WITH ARCHITECTURAL PLANS AND OWNER FOR EXACT LOCATION AND HEIGHT IN RELATION TO OTHER WALL MOUNTED EQUIPMENT.

1 ZONE A
1/8"=1'-0"



Revisions

Revisions	Date	Revisions	Date	Revisions	Date

HEERY design

Heery International Inc.
125 South Dubuque Street,
Suite 500,
Iowa City, IA 52240-4003
319.354.4700

project number
11-25503

Drawing Title
**MEDICAL GAS PLAN-
LEVEL 1**

CONSTRUCTION DOCUMENTS

Project Title
**EXPAND BLDG. 1 FOR FACT
AMBULATORY CARE & RADIOLOGY**

Building No.
BLDG 1

Location
ICVA HEALTH CARE SYSTEM

Date
12/15/2014

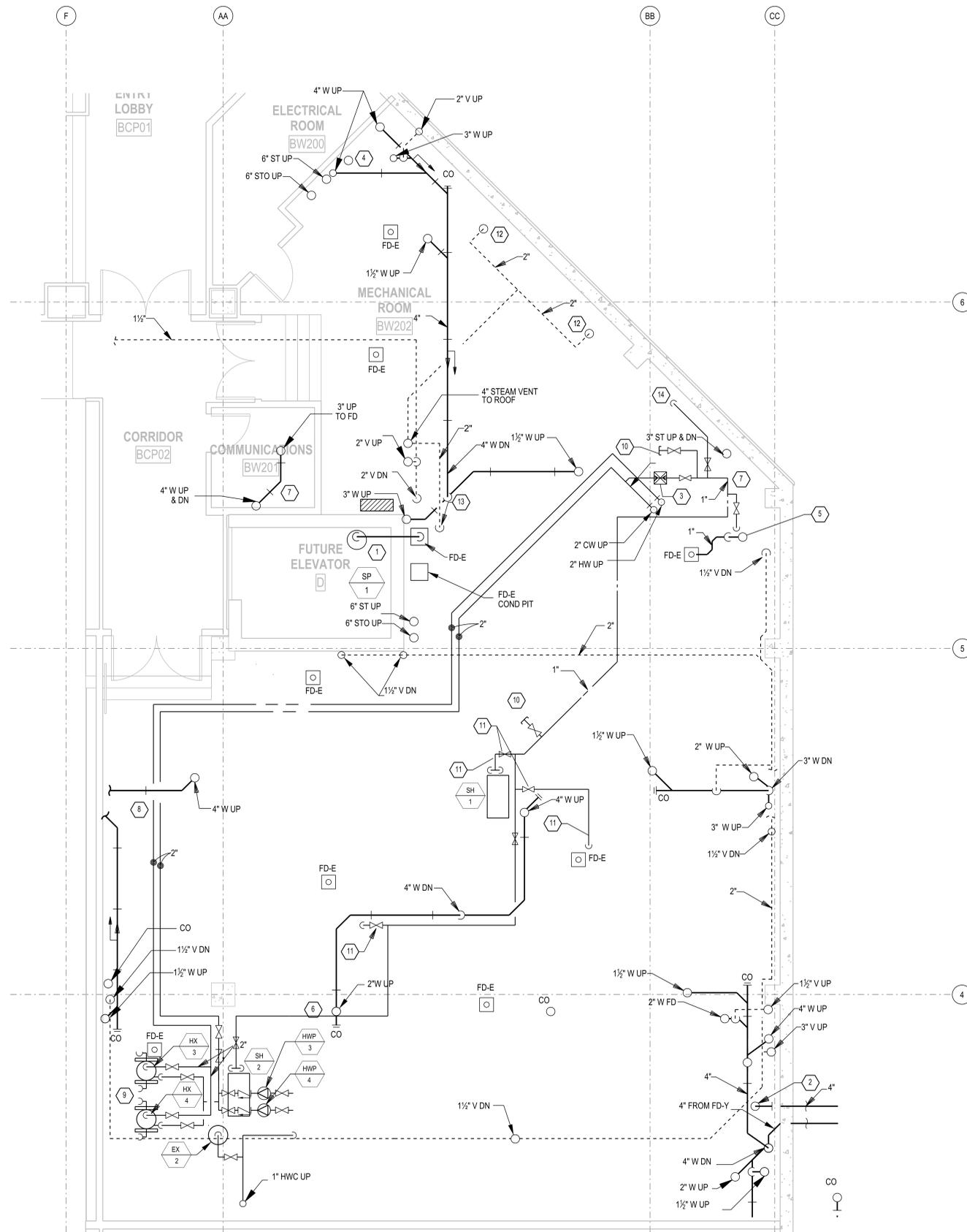
Project No.
636-201

DRAWING NO.
1-P10

Office of Facilities

Department of Veterans Affairs

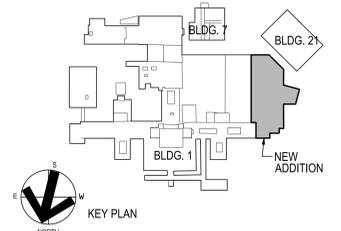
three inches = one foot
 one and one-half inches = one foot
 one inch = one foot
 three-quarters inch = one foot
 one-half inch = one foot
 three-eighths inch = one foot
 one-quarter inch = one foot
 one-eighth inch = one foot



1 ENLARGED PLUMBING PLAN LOWER LEVEL
1/4"=1'-0"

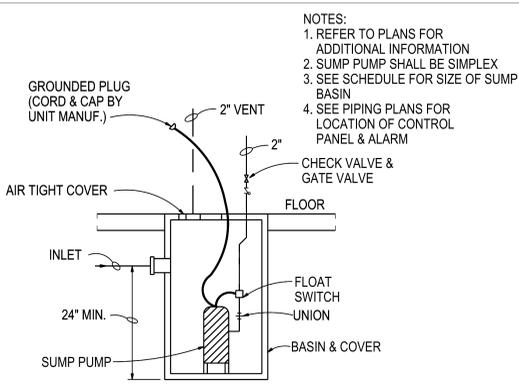
- GENERAL PLUMBING NOTES:**
- INSTALL CLEANOUTS AT BASE OF ALL VERTICAL RISERS NEAR FLOOR FOR SANITARY AND STORM SEWER SYSTEMS.
 - ALL WORK WITHIN EXISTING FACILITY SHALL BE COORDINATED WITH THE OWNER. PROPER DUST AND DIRT BARRIERS SHALL BE CONSTRUCTED FOR SEPARATION WITH THE WORK AREA IN THE HOSPITAL. SEPARATION PARTITIONS SHALL BE MADE OF STUDS AND GYPSUM BOARD, TAPED, AND CAULKED. PARTITION SHALL INCLUDE A DOOR. INFECTION CONTROL SHALL BE CLASS III.
 - GENERAL CONTRACTOR TO SLOPE FLOORS TO WARDS FLOOR DRAINS. COORDINATE WITH ARCHITECT AND OWNER FOR APPROVED SLOPE REQUIRED.
 - ALL SANITARY WASTE PIPE SHALL BE INSTALL AT 1/4" PER FOOT FALL.
 - ALL PIPING THROUGH FLOORS TO HAVE CORE DRILLED PENETRATIONS AND PROVIDED WITH FIRE STOPPING SLEEVES.
 - REFER TO SHEET 1-A8 FOR LIST OF AREAS AFFECTED BY DEDUCT ALTERNATES.

- KEYED PLUMBING NOTES:**
- SP-1 DISCHARGE DOWN TO FLOOR SINK.
 - CONNECT DECONTAMINATION WASTE TO SANITARY MAIN.
 - 1" CW SUPPLY WITH PRZ AND HOSE CONNECTION. TO BE USED FOR MECHANICAL SYSTEM FILLING. POT FEEDER AND HUMIDITY GENERATORS.
 - CONNECT 2" SUMP PUMP DISCHARGE (PD) TP 6" TO RISER ABOVE RISER CLEAN OUT.
 - PROVIDE 1 INCH CONDENSATE DRAIN WITH P-TRAP AT BOTTOM OUTSIDE AIR DUCT RISER WITH TRAP PRIMER.
 - SEE DETAIL ON 1-P12 FOR WATER HEATER HEAT EXCHANGER CONNECTION REQUIREMENTS.
 - SHEETMETAL TROUGH BELOW PIPING. PROVIDE WITH 1/2" DRAIN PIPE AND ROUTE TO NEAREST FLOOR DRAIN.
 - SHEETMETAL TROUGH BELOW PIPING THAT ROUTES ABOVE ELECTRICAL AND CONTROLS GEAR.
 - REFER TO SHEET 1-M19 FOR UTILITY PIPING. COORDINATE REQUIRED HEIGHT OF HOUSEKEEPING PAD WITH LPR PIPE SLOPE REQUIREMENTS.
 - SERVICE VALVE WITH HOSE CONNECTION.
 - INSTALL 1/2" CW SUPPLY WITH BALL VALVE TO CONDENSATE DRAIN COOLED DEVICES FOR HUMIDIFIER STEAM GENERATORS (SH-1, SH-2), AND HUMIDIFIER DISPERSION COILS FOR SHC-1, SHC-2.
 - STEAM PRESSURE REDUCING STATION VENT PIPING. INSULATE PIPE. INSTALL AS INDEPENDENT VENT SYSTEM FOR MECHANICAL VENTING.
 - STEAM CONDENSATE PUMP VENT PIPING. INSULATE PIPE. CONNECT TO STEAM PRESSURE REDUCING STATION VENT SYSTEM.
 - 1/2" CW TO POT FEEDER.



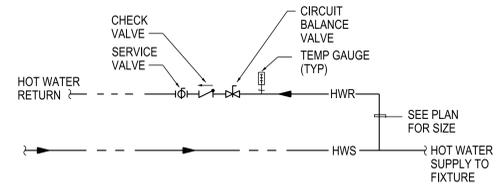
Revisions	Date	Revisions	Date	Revisions	Date

<p>Heery International Inc. 125 South Dubuque Street, Suite 500, Iowa City, IA 52240-4003 319.354.4700</p>	project number 11-25503	Drawing Title ENLARGED PLUMBING PLAN LOWER LEVEL MECH ROOM		Project Title EXPAND BLDG. 1 FOR PACT AMBULATORY CARE & RADIOLOGY		Date 12/15/2014	
		CONSTRUCTION DOCUMENTS		Building No. BLDG. 1	Checked AGW	Drawn RAH	Project No. 636-201
Location ICVA HEALTH CARE SYSTEM				Drawing No. 1-P11			

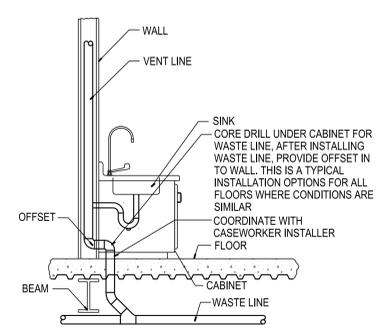


1 SUMP PUMP DETAIL
NO SCALE

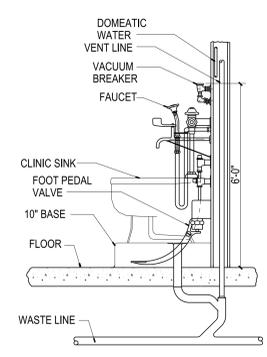
- NOTES:
 1. REFER TO PLANS FOR ADDITIONAL INFORMATION
 2. SUMP PUMP SHALL BE SIMPLEX
 3. SEE SCHEDULE FOR SIZE OF SUMP BASIN
 4. SEE PIPING PLANS FOR LOCATION OF CONTROL PANEL & ALARM



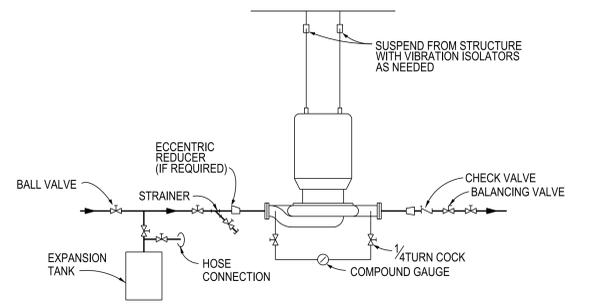
2 HOT WATER RECIRCULATION DETAIL
NO SCALE



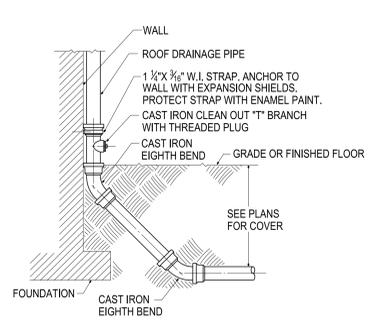
3 SINK OVER STRUCTURAL BEAM
NO SCALE



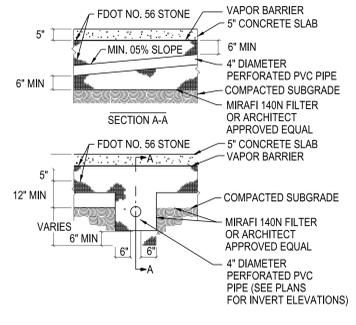
4 CLINIC SINK DETAIL
NO SCALE



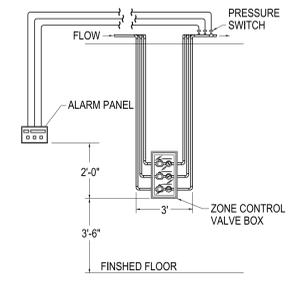
5 INLINE PUMP, EXPANSION TANK DETAIL
NO SCALE



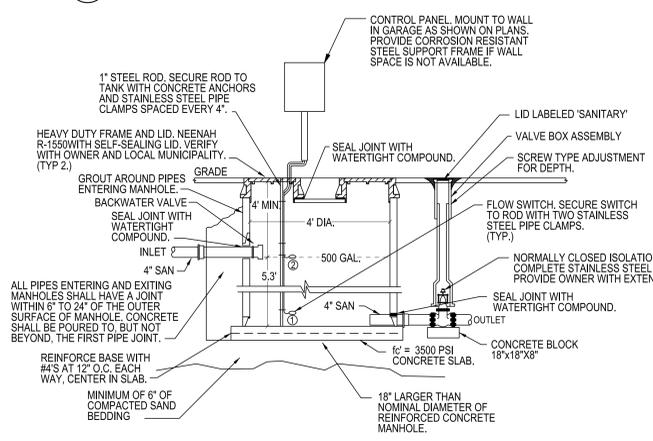
6 STORM PIPE DETAIL
NO SCALE



7 UNDERSLAB DRAIN DETAIL
NO SCALE

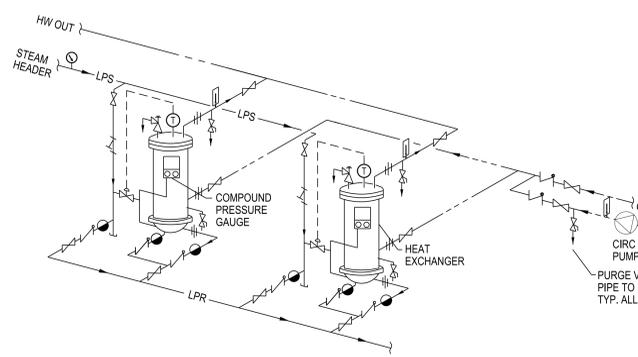


8 MEDICAL GAS VALVE BOX AND ALARM DETAIL
NO SCALE



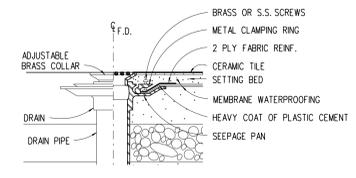
9 DECONTAMINATION STORAGE TANK
NO SCALE

- ① INSTALL FLOW SWITCH AT 250 GALLON LEVEL, A.T.C. TO PROVIDE GENERAL ALARM FOR DDC.
 ② INSTALL FLOW SWITCH AT 500 GALLON LEVEL, A.T.C. TO PROVIDE GENERAL ALARM FOR DDC.
- NOTES:
 1. STORAGE TANK SHALL HAVE A MINIMUM STORAGE CAPACITY OF 500 GALLONS.
 2. FIELD VERIFY INVERT ELEVATIONS. DIMENSIONS MAY VARY TO ACCOMMODATE SITE.
 3. DECONTAMINATION TANK AND BACK FILL PROVIDED BY GENERAL CONTRACTOR.
 4. LINE AND SEAL TANK WITH CHEMICAL RESISTANT NON-PERMEABLE "XR-5-8138 GRADE GEOMEMBRANE MADE BY SEAMAN CORPORATION". NO SUBSTITUTIONS.

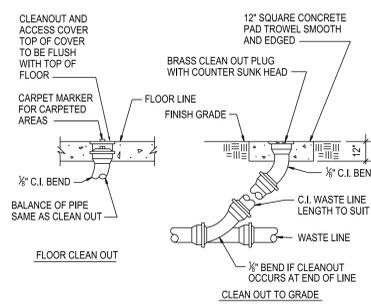


10 WATER HEATER DETAIL- STEAM TO HOT WATER EXCHANGER
NO SCALE

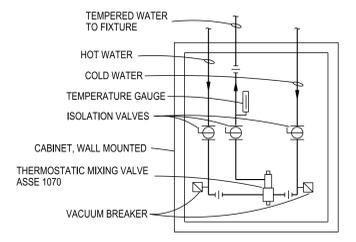
- NOTES:
 1. FOR ACTUAL SIZES AND LOCATIONS OF PIPING AND OTHER CONNECTIONS TO THE HEATER, SEE DIMENSIONAL DRAWING BY MANUFACTURER.
 2. PIPING TO THE UPPER HEATER HEAD SHOULD BE PROVIDED WITH UNIONS OR FLANGES WHICH ARE LOCATED BEYOND THE OUTSIDE DIAMETER OF THE HEAD TO PERMIT REMOVAL OF THE HEAD AND SHELL.
 3. HEADERS SHOULD BE PIPED REVERSE RETURN OR BALANCING DEVICES ON THE OUTLETS SHOULD BE EMPLOYED.
 4. REDUCERS, ON THE WATER INLET SIDE, SHOULD BE LOCATED ADJACENT TO THE HEATER. EXPANSION FITTINGS, ON THE WATER INLET SIDE, SHOULD BE ARRANGED TO PERMIT THE CONDENSATE TO DRAIN FREELY, BY GRAVITY, FROM THE LOWER HEATER HEAD.
 5. CONDENSATE RETURN PIPING SHOULD BE ARRANGED TO PERMIT THE CONDENSATE TO DRAIN FREELY, BY GRAVITY FROM THE LOWER HEATER HEAD.
 6. DRAIN VALVE SHOULD BE PIPED DIRECTLY TO A FLOOR DRAIN. RELIEF VALVE & OVER-TEMP SOLENOID VALVE SHOULD BE PIPED VERTICALLY TO A HEIGHT 19\"/>



11 FLOOR DRAIN DETAILS
NO SCALE



12 CLEAN OUT DETAILS
NO SCALE



13 THERMOSTATIC MIXING VALVE DETAIL
NO SCALE

- MINIMIZE COLD AND HOT WATER FIXTURE RUN OUT DISTANCES BY LOCATING PIPING MAINS AS CLOSE TO FIXTURES AS POSSIBLE.
 CONTRACTOR TO PROVIDE AND INSTALL 304 STAINLESS STEEL WALL BOX, FLUSH MOUNTED, LOCKABLE, 12x12 MINIMUM. COORDINATE WITH CASEWORK AND OTHER TRADES FOR EXACT LOCATION. ASSEMBLY MAY BE EXPOSED BELOW SINK IF ENCLOSED BY CASEWORK.

EXPANSION TANK SCHEDULE (PLBG)

TAG	SYSTEM	LOCATION	TYPE	TANK VOLUME (GAL)	MIN. ACCEP VOLUME (GAL)	SIZE DATA		SYSTEM CONN. (IN)	AIR CHARGE PRESSURE (PSI)	SYSTEM OPERATION		BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER	NOTES
						DIA. (IN)	LEN (IN)			MIN. (PSI)	MAX. (PSI)		
EX-2	DOM HW	MECHANICAL BW202	BLADDER	10	5.5	12	23.5	3/4	15	15	90	WESSELS NLA-35	1, 2, 3

- NOTES:
 1. ASME RATED.
 2. PROVIDE AIR CHARGING VALVE, HEAVY DUTY BUTYL BLADDER, AND CARBON STEEL CONSTRUCTION.
 3. FIELD ADJUST CHARGE PRESSURE AS REQUIRED.

SUMP PUMP SCHEDULE

TAG	SYSTEM LOCATION	FLUID	CAPACITY (GPM)	DISCHARGE HEAD (FT)	SIZE DATA		MOTOR DATA			BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER	NOTES
					SUCTION (IN)	DISCH. (IN)	HP	VOLT	PH		
SP-1	ELEVATOR PIT	WATER	55.0	15.0	2	2	4/10	115	1	ZOELLER SERIES 910-0016	1,2,3,4,5,6

- NOTES:
 1. INSTALL CHECK VALVE ON PUMP DISCHARGE.
 2. UNIT SHALL BE A SIMPLEX SUBMERSIBLE UNIT.
 3. ELECTRICAL CONNECTIONS SHALL BE SUBMERSIBLE.
 4. PROVIDE WITH FLOAT SWITCH AND HIGH LEVEL ALARM HORN ON PANEL.
 5. PROVIDE WITH ISOLATED CONTACT FOR HIGH WATER ALARM TO BAS.
 6. MOUNT PUMP ON ELEVATED 4 INCH CONCRETE BLOCK.

PROJECT: ICVA-AMC-EXPANSION BLDG. FOR PACT PROJECT
 SHEET TITLE: PLUMBING DETAILS - PLUMBING SCHEDULES
 DATE: 12/15/2014
 DRAWN BY: AGW
 CHECKED BY: DRB

Revisions	Date	Revisions	Date

HEERY design
 Heery International Inc.
 125 South Dubuque Street,
 Suite 500,
 Iowa City, IA 52240-4003
 319.354.4700

project number
11-25503

Drawing Title
PLUMBING DETAILS

CONSTRUCTION DOCUMENTS

Project Title
EXPAND BLDG. 1 FOR PACT AMBULATORY CARE & RADIOLOGY

Building No.
BLDG 1

Location
ICVA HEALTH CARE SYSTEM

Date
12/15/2014

Project No.
636-201

DRAWING NO.
1-P12

Office of Facilities

Department of Veterans Affairs

PLUMBING FIXTURE SCHEDULE

FIXTURE		DESCRIPTION: BASIS OF DESIGN	MINIMUM CONNECTION SIZES			
ID	TYPE		WASTE	VENT	CW	HW
P-101	WATER CLOSET	WATER CLOSET, FLOOR MOUNTED, ASME/ANSI A112.19.2M, ELONGATED BOWL, SIPHON JET 1.6 GALLON PER FLUSH GPH, TOP WATER CONNECTION, TOP OF RIM SHALL BE 18 INCHES ABOVE FINISHED FLOOR. 1 INCH SUPPLY. FLOOR OUTLET OR BACKLET DEPENDING ON STRUCTURAL FLOOR WEB COORDINATION. MOUNT RIM AT 18 INCHES ABOVE FINISHED FLOOR TO MEET CURRENT ADA STANDARDS.	3"	2"	1"	-
P-408	LAVATORY WALL MOUNT	LAVATORY, GOOSENECK SPOUT WITH WRIST BLADES, ASME/ANSI A112.19.2M, WALL HUNG, STRAIGHT BACK VITREOUS CHINA (APPROX. 18 INCHES BY 15 INCHES WITH 4 INCH MINIMUM APRON, FAUCET WITH 4 INCH CENTERS, CONCEALED CARRIER, LAMINAR FLOW OUTLET DEVICE, OFFSET "P" TRAP WITH ADA INSULATION PACKAGE., RIM SET AT 34 INCHES ABOVE FINISHED FLOOR. THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070.	1-1/4"	1-1/4"	1/2"	1/2"
P-418	LAVATORY SELF RIMMING	LAVATORY, SENSOR CONTROL, GOOSENECK SPOUT, ASME/ANSI A112.19.2M, FIXTURE MOUNTED SELF RIMMING, VITREOUS CHINA (APPROX. 20 INCHES BY 18 INCHES, FAUCET WITH 4 INCH CENTERS, LAMINAR FLOW OUTLET DEVICE, OFFSET "P" TRAP WITH ADA INSULATION PACKAGE, BATTERY POWERED. RIM SET AT 34 INCHES ABOVE FINISHED FLOOR. THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070.	1-1/4"	1-1/4"	1/2"	1/2"
P-419	LAVATORY WALL MOUNT	LAVATORY, SENSOR CONTROL, GOOSENECK SPOUT, ASME/ANSI A112.19.2M, WALL HUNG, STRAIGHT BACK VITREOUS CHINA (APPROX. 20 INCHES BY 18 INCHES WITH 4 INCH MINIMUM APRON, FAUCET WITH 4 INCH CENTERS, CONCEALED CARRIER, LAMINAR FLOW OUTLET DEVICE, OFFSET "P" TRAP WITH ADA INSULATION PACKAGE, BATTERY POWERED. RIM SET AT 34 INCHES ABOVE FINISHED FLOOR. THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070.	1-1/4"	1-1/4"	1/2"	1/2"
P-502	JANITOR SINK	SERVICE SINK (CORNER), FLOOR MOUNTED STAIN RESISTANT TERRAZZO, 24 INCHES BY 36 INCHES BY 12 INCHES AND 6 INCH DROP FRONT, TERRAZZO (COMPOSED OF MARBLE CHIPS AND WHITE PORTLAND CEMENT) SHALL DEVELOP COMPRESSIVE STRENGTH OF 3000 PSI SEVEN DAYS AFTER CASTING, STAINLESS STEEL CAP ON FRONT AND STAINLESS STEEL WALL FLANGE AT EACH WALL. SOLID BRASS CONSTRUCTION FAUCET WITH CERAMIC SEAT, SPOUT WITH PAIL HOOK, 3/4 INCH HOSE COUPLING THREADS, VACUUM BREAKER, TOP OR BOTTOM BRACE TO WALL, INTEGRAL STOPS. LOCATE 48 INCHES ABOVE FINISHED FLOOR AND PROVIDE 3/8 INCH HOSE WITH WALL HOOK. INSTALL (1) HOSE BIB P-804 PER JANITOR SINK NEAR FAUCET, CONNECTED TO COLD WATER, COORDINATE WITH OWNER FOR EXACT LOCATION. THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070.	3"	2"	1/2"	1/2"
P-505	CLINIC SINK IN SOILED HOLDING ROOM	CLINIC SINK WITH FLUSHING RIM, WALL HUNG, APPROX. 20 INCHES BY 25 INCHES BY 8 INCHES DEEP, RIM HEIGHT AT 30 INCHES ABOVE FINISHED FLOOR, FLUSH VALVE WITH EXTENDED HEIGHT, BED PAN WASHER, JANITOR SINK FAUCET (P-502), SPRAY HANDLE WITH HOSE AND FOOT PEDAL CONTROL. THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070.	3"	2"	1"	1/2"
P-507	PLASTER SINK	PLASTER SINK, VITREOUS GLAZED EARTHENWARE, SINGLE COMPARTMENT, WALL HUNG. SET RIM 36 INCHES ABOVE FINISHED FLOOR. LAMINAR FLOW FAUCET WITH BLADE HANDLES. COLLECT SOLIDS DIRECTLY FROM SINK WASTE, REMOVABLE GASKET COVER (5 INCH CLEAR ABOVE UNIT), CAST IRON, 2 INCH THREADED CONNECTING POINTS, REMOVABLE STAINLESS STEEL BUCKET AND STAINLESS STEEL SCREEN, FLOOR MOUNTED. TRAP SHALL BE NOT TALLER THAN 12.5 INCHES. THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070.	2"	1-1/4"	1/2"	1/2"
P-516	FAUCET, WATER SUPPLIES, AND DRAIN TRAP	COUNTER SINK INTEGRAL WITH COUNTERTOP PROVIDED BY OTHERS. FAUCET TO BE SOLID BRASS CONSTRUCTION. COMBINATION FAUCET WITH REPLACEABLE CERAMIC SEAT (QUARTER TURN), SWING GOOSENECK SPOUT, WRIST BLADE HANDLES (CAST FORMED OR DROP FORGED COPPER ALLOY), SMOOTH BRIGHT FINISH, LAMINAR FLOW OUTLET CONTROL DEVICE. THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070.	1-1/2"	1-1/2"	1/2"	1/2"
P-528	KITCHEN SINK	KITCHEN SINK, SINGLE COMPARTMENT, SELF RIMMING COUNTER TOP MOUNT, BACK FAUCET LEDGE, APPROX 21 X 22 INCHES BY 7.5 INCHES DEEP, CRS. DECK MOUNTED GOOSENECK FAUCET, WRIST BLADES, POLISHED CHROME PLATED. THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 170.	2"	1-1/2"	1/2"	1/2"
P-604	WATER COOLER	ELECTRIC WATER COOLER, WALL HUNG, 5GPH MINIMUM, BUBBLER STYLE, CABINET, CRS ANTI-SPLASH DESIGN WITH SATIN FINISH. PUSH BAR OPERATED WITH FRONT AND SIDE BARS. MOUNT TWO UNITS SIDE BY SIDE AS FOLLOWS, ONE UNIT STANDARD HEIGHT, ONE UNIT ADA HEIGHT. DESIGN BASIS ELKAY MODEL EZ31TR8C.	1-1/2"	1-1/2"	1/2"	-
P-704	DECONTAMINATION SHOWER	WALL MOUNTED SHOWER ASSEMBLY WITH BOTH FIXED SHOWER HEAD AND HAND HELD WITH HOSE, T/P COMBINATION TEMPERATURE AND PRESSURE BALANCING VALVE WITH CHROME PLATE METAL LEVER, DIVERTER SELECTOR VALVE, ELEVATED VACUUM BREAKER, SCREW DRIVER CHECK STOPS, TEMPERATURE LIMIT STOP, 3 GPM FLOW RATE. FIXED SHOWER HEAD SHALL BE CHROME PLATED, ADJUSTABLE BALL JOINT, SELF CLEANING WITH AUTOMATIC FLOW CONTROL DEVICE. HAND HELD SPRAY ASSEMBLY SHALL BE 60 INCH LONG HOSE, RUBBER LINED CRS CHROME PLATED METAL FLEXIBLE, WALL MOUNTED ELBOW HOOK, SELF CLEANING, THUMB OPEN-SHUT CONTROL. THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 170.	2"	1-1/2"	1/2"	1/2"
P-708	EMERGENCY EYE WASH WALL MOUNTED	WALL MOUNTED EMERGENCY EYE WASH DUAL HEAD DRENCH HOSE: WALL MOUNTED, CORROSION RESISTANT STEEL (CRS) (STAINLESS STEEL), STAY-OPEN HAND SQUEEZE VALVE CONTROL, FLIP TOP COVERS, HOSE LENGTH 8 FEET, REINFORCED PVC HOSE, 1-1/2 INCH HEAD DIAMETERS, 3.2 GPM, THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070, WALL BRACKET, IDENTIFICATION SIGN AND INSPECTION TAG. MOUNT EYE AND FACE WASH SPRAY HEADS 42 INCHES ABOVE FINISHED FLOOR. INSTALL THERMOSTATIC MIXING VALVE WITHIN CRS WALL BOX WITH ACCESS PANEL, WITHIN 12 INCHES OF HOSE MOUNT. INSTALL WITH COLD AND HOT WATER SUPPLY BALL VALVES OFF OF MAINS, LOCKABLE IN THE OPEN AND CLOSED POSITIONS, UPSTREAM OF THERMOSTATIC MIXING VALVE. BASIS OF DESIGN: GUARDIAN MODELS G5026 AND G3600.	-	-	1/2"	1/2"

NOTES:
 1. REFERENCE SPECIFICATIONS "24 40 00", "22 13 00", "22 14 00" FOR COMPLETE SPECIFICATIONS.
 2. ALL FIXTURES WITH HOT WATER SHALL HAVE THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070.

NOTES:
 1. REFERENCE SPECIFICATIONS "24 40 00", "22 13 00", "22 14 00" FOR COMPLETE SPECIFICATIONS.
 2. ALL FIXTURES WITH HOT WATER SHALL HAVE THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070.

PUMP SCHEDULE (PLBG)

TAG	SYSTEM	LOCATION	TYPE	FLUID	CAPACITY (GPM)	DISCHARGE HEAD (FT)	SIZE DATA		MOTOR DATA			BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER	NOTES
							SUCTION (IN)	DISCH. (IN)	WATT	VOLT	PH		
HWP-3	DOMESTIC HW CIRC.	MECHANICAL BW202	CANNED ROTOR	DOMESTIC	10.0	20.5	1-1/2	1-1/2	280	120	1	GRUNDFOS UPS 32-80 F	1,2,3
HWP-4	DOMESTIC HW CIRC.	MECHANICAL BW202	CANNED ROTOR	DOMESTIC	10.0	20.5	1-1/2	1-1/2	280	120	1	GRUNDFOS UPS 32-80 F	1,2,3

NOTES:
 1. PREMIUM EFFICIENCY MOTOR, STAINLESS STEEL 304 ROTOR AND IMPELLER, CAST IRON HOUSING, 2 SPEED CONTROL.
 2. AQUA-STAT AND AUTOMATIC PROGRAMMABLE TIMER KIT.
 3. MAGNETIC STARTERS FOR PUMPS PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.

HEAT EXCHANGER SCHEDULE (STEAM-TO-WATER-PLBG)

TAG	SYSTEM	LOCATION	TYPE	TUBESIDE DATA					WATER CONN. SIZES (NPT)	SHELL DATA		STEAM DATA		ELECTRICAL			BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER	NOTES		
				WATER FLOW (GPM)	MAX. FLD. PD (FT)	MAX. EWT (F)	LWT (F)	TUBE O.D. (INCH)		TUBE WALL (INCH)	FOULING FACTOR	MAX. TEMP. (F)	MAX. PRES. (PSI)	MAX. FLOW (IBS/HR)	PRESS. (PSIG)	AMPS			VOLT	PH
HX-3	DOMESTIC HW	MECHANICAL BW202	INDIRECT SHELL&TUBE	70	10	50	140	0.75	0.125	0.000	2"	400	185	3200	15	1.5	120	1	AERCO SWDW-242.5/EC	1,2,3,4
HX-4	DOMESTIC HW	MECHANICAL BW202	INDIRECT SHELL&TUBE	70	10	50	140	0.75	0.125	0.000	2"	400	185	3200	15	1.5	120	1	AERCO SWDW-242.5/EC	1,2,3,4

NOTES:
 1. ELECTRONIC CONTROLS (+/- 4 F) WITH HIGH TURNDOWN CONTROL VALVES AND HIGH LIMIT TIPPED STATUS INDICATION.
 2. INTEGRATE WITH EXISTING BUILDING AUTOMATION SYSTEM.
 3. ASME RATED AND INSTALLED WITH RELIEF VALVES RATED FOR SERVICE REQUIREMENTS OF STEAM AND WATER SYSTEMS.
 4. CONSTRUCTION: DOUBLE WALL TUBING, COPPER TUBES, 304 STAINLESS STEEL WETTED PARTS, VIRGIN TEFLON.



project number
11-25503

Drawing Title
PLUMBING SCHEDULES

CONSTRUCTION DOCUMENTS

Project Title
EXPAND BLDG. 1 FOR FACT AMBULATORY CARE & RADIOLOGY

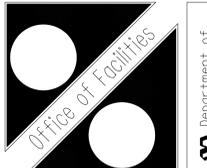
Building No.
BLDG 1

Location
ICVA HEALTH CARE SYSTEM

Date
12/15/2014

Project No.
636-201

DRAWING NO.
1-P13



Department of Veterans Affairs